

**Table 18.** Concentrations of selected polycyclic aromatic hydrocarbons, polychlorinated biphenyl congeners, and organochlorine pesticides in Standard Reference Material 1944 (New York/New Jersey waterway sediment), which was run for quality-control purposes.

[The National Institute of Standards and Technology (NIST)-certified values as well as the acceptable concentration range based on the 95-percent confidence intervals of the true value were used to verify method performance. Samples were analyzed in four batches and information on each batch is included. Samples analyzed at the Institute for Integrated Research in Materials, Environments and Society laboratory in Long Beach, California. Concentrations are in micrograms per kilogram, dry weight. DDD, Dichlorodiphenyldichloroethane; DDE, Dichlorodiphenyldichloroethylene; DDT, Dichlorodiphenyltrichloroethane; PCB, polychlorinated biphenyl; E, estimated value]

Constituent	NIST-certified value	Acceptable concentration range	Batch number			
			TO-04-039	TO-04-041	TO-04-043	TO-04-061
Polycyclic aromatic hydrocarbons						
1-Methylnaphthalene	520	260–650	436	447	365	429
1-Methylphenanthrene	1,700	1,190–2,210	1,983	1,996	1,752	1,715
2-Methylnaphthalene	950	665–1,235	680	725	554	676
Acenaphthene	570	285–712	474	467	372	442
Anthracene	1,770	1,239–2,301	1,468	1,514	1,240	1,270
Benz[a]anthracene	4,720	3,304–6,136	5,498	4,692	5,896	5,264
Benzo[a]pyrene	4,300	3,010–5,590	4,637	3,662	4,579	4,819
Benzo[b]fluoranthene	3,870	2,709–5,031	4,521	3,815	4,879	4,457
Benzo[e]pyrene	3,280	2,296–4,264	3,963	3,582	3,861	4,004
Benzo[g,h,i]perylene	2,840	1,988–3,692	2,921	2,941	2,726	3,007
Benzo[k]fluoranthene	2,300	1,610–2,990	2,351	2,386	2,116	2,308
Biphenyl	320	160–400	214	253	176	254
Chrysene	4,860	3,402–6,318	5,631	5,907	6,070	6,159
Dibenz[a,h]anthracene	424	297–551	368	326	406	382
Dibenzothiophene	620	434–806	791	674	728	757
Fluoranthene	8,920	6,244–11,596	7,030	9,232	7,940	9,008
Fluorene	850	595–1105	765	649	722	871
Indeno[1,2,3-c,d]pyrene	2,780	1,946–3,614	3,444	3,026	3,515	3,055
Naphthalene	1,650	825–2,062	1,000	1,228	873	1,169
Perylene	1,170	819–1,521	1,016	1,074	1,008	944
Phenanthrene	5,270	3,689–6,851	3,923	5,757	4,250	5,548
Pyrene	9,700	6,790–12,610	7,278	9,790	8,110	9,732
Polychlorinated biphenyl congeners						
PCB008	22.3	15.6–29.0	25.7	18.9	22.0	18.0
PCB018	51.0	35.7–66.3	46.4	57.2	47.6	43.9
PCB028	80.8	56.6–105	71.7	80.8	72.6	59.4
PCB031	78.7	55.1–102	71.7	78.7	65.3	90.3
PCB044	60.2	42.1–78.3	55.8	54.9	52.9	44.0
PCB049	53.0	37.1–68.9	53.8	60.6	54.5	58.7
PCB052	79.4	55.6–103	64.9	57.8	66.3	62.0
PCB066	71.9	50.3–93.5	56.4	50.7	52.2	53.1
PCB087	29.9	20.9–38.9	27.9	21.0	25.5	22.0
PCB095	65.0	45.5–84.5	47.6	46.2	49.2	74.0
PCB099	37.5	26.2–48.8	30.7	27.9	28.4	27.1
PCB101	73.4	51.4–65.4	57.8	65.5	54.4	52.0

## 2 Estuarine Bed-Sediment-Quality Data Collected in New Jersey and New York after Hurricane Sandy, 2013

**Table 18.** Concentrations of selected polycyclic aromatic hydrocarbons, polychlorinated biphenyl congeners, and organochlorine pesticides in Standard Reference Material 1944 (New York/New Jersey waterway sediment), which was run for quality-control purposes.—Continued

[The National Institute of Standards and Technology (NIST)-certified values as well as the acceptable concentration range based on the 95-percent confidence intervals of the true value were used to verify method performance. Samples were analyzed in four batches and information on each batch is included. Samples analyzed at the Institute for Integrated Research in Materials, Environments and Society laboratory in Long Beach, California. Concentrations are in micrograms per kilogram, dry weight. DDD, Dichlorodiphenyldichloroethane; DDE, Dichlorodiphenyldichloroethylene; DDT, Dichlorodiphenyltrichloroethane; PCB, polychlorinated biphenyl; E, estimated value]

Constituent	NIST-certified value	Acceptable concentration range	Batch number			
			TO-04-039	TO-04-041	TO-04-043	TO-04-061
Polychlorinated biphenyl congeners—Continued						
PCB105	24.5	17.1–31.9	18.7	18.2	22.1	18.2
PCB110	63.5	44.4–82.6	51.9	50.9	46.2	47.2
PCB118	58.0	40.6–75.4	45.6	41.4	52.1	41.0
PCB128	8.5	5.95–11.1	8.20	9.80	10.9	10.7
PCB138	62.1	43.5–80.7	58.6	45.2	48.8	66.4
PCB149	49.7	34.8–64.6	37.6	39.8	36.6	37.9
PCB151	16.9	11.8–22.0	14.6	16.9	13.1	12.3
PCB153	74.0	51.8–96.2	62.1	52.5	69.8	60.7
PCB156	6.5	4.55–8.45	7.10	8.10	7.40	5.20
PCB170	22.6	15.8–29.4	21.6	24.8	24.6	25.4
PCB180	44.3	31.0–57.6	47.7	41.8	36.4	44.4
PCB183	12.2	8.54–15.9	11.5	9.0	10.6	14.3
PCB187	24.1	16.9–31.3	22.1	25.1	22.0	27.2
PCB194	11.2	7.84–14.6	12.0	9.00	12.7	13.2
PCB195 <sup>1</sup>	3.8	2.66–4.94	3.80	3.80	4.00	4.50
PCB206	9.2	6.44–12.0	7.40	10.7	7.80	9.60
PCB209	6.8	4.76–8.84	5.40	6.30	5.80	6.00
Organochlorine pesticides						
2,4'-DDD	38	26.6–49.4	47.5	34.1	34.3	41.6
2,4'-DDE	19	13.3–24.7	17.5	17.7	18.2	21.2
4,4'-DDD	108	75.6–140	104	101	124	110
4,4'-DDE	86.0	60.2–112	95.6	78.1	105	94.0
4,4'-DDT	119	83.3–155	124	86.1	126	122
Chlordane-alpha	16.5	11.5–21.5	18.1	16.4	18.7	21.5
Chlordane-gamma	8.0	5.6–10.4	9.30	6.70	8.00	9.00
cis-Nonachlor <sup>1</sup>	3.7	2.6–4.8	E 4.40	E 4.30	E 4.60	E 4.50
Hexachlorobenzene	6.0	4.2–7.8	6.10	6.50	5.40	5.80
trans-Nonachlor	8.2	5.7–10.7	9.50	10.7	9.90	10.7

<sup>1</sup>Reported concentrations in the Standard Reference Material are less than the reporting limit, and the concentrations are reported as estimates.